



# HF0118-12 series single channel rf rotary joint slip ring

Signal Channel,Frequency DC~18GHz,OD 12.5mm

Senring HF0118-12 series RF rotary joint is used transmitting of analog and digital signals,RF Channel, 2.4(K)-F connector.

## Part No. Description

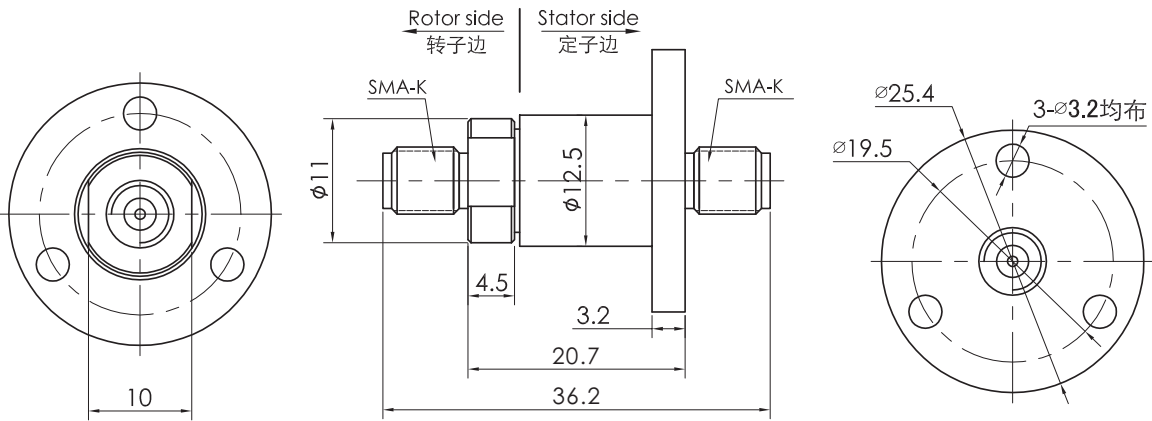
### HF0118-12 - Power / Signal Circuits

Single Channel RF Rotary Joint  
Frequency DC~18GHz,OD 12.5mm

RF channel, can be customized to combine  
power/signal transmitting (1~96 wires)

## Examples

HF0118-12: singal channel RF high frequency rotary joint,frequency DC~18GHz,OD 12.5mm



## Rotary joint Spec.

|                           |                                                                   |                            |                                                            |
|---------------------------|-------------------------------------------------------------------|----------------------------|------------------------------------------------------------|
| Connector type            | SMA-K (50Ω)                                                       | Style                      | I type                                                     |
| Frequency                 | DC to 18 GHz                                                      | Phase WOW ( Max degree)    | 1°                                                         |
| VSWR(max)                 | 1.3@DC to 10 GHz<br>1.4@DC to 18 GHz                              | Insertion loss             | 0.25 dB @ DC to 10 GHz<br>0.30 dB @10 to 18 GHz            |
| VSWR fluctuation(max)     | 0.05                                                              | Insertion loss fluctuation | 0.05 dB                                                    |
| Peak power(max)           | 3000W                                                             | Average power(max)         | 500 W @1 GHz<br>200 W @6GHz<br>100 W @12GHz<br>30 W @18GHz |
| Rotating speed(max)       | 250RPM                                                            | working life               | > 10 millions for ref(depe-nds on working conditions)      |
| Starting torque(max)      | 0.5N.cm                                                           | Rotating torque(max)       | 0.5 N.cm                                                   |
| Connector axial load(max) | ± 0.1N                                                            | Connector radial load(max) | ± 0.1N                                                     |
| Insulating material       | PTFE                                                              | IP grade                   | IP 40 acc. EN 60529                                        |
| Temperature               | -55 to +85℃(work temperature)<br>-55 to +85℃(storage temperature) | Humidity                   | 95% (work humidity)<br>85% (storage humidity)              |